

the phosphor having a crystal structure and consisting essentially of a composition expressed by a general formula:



where L denotes at least one element selected from Y and Gd, and x is a number satisfying $0.1 < x \leq 0.7$.

11. (Amended) A phosphor excited by a vacuum ultraviolet ray provided with a green light emitting phosphor when excited by the vacuum ultraviolet ray, the phosphor having a crystal structure and consisting essentially of a composition expressed by a general formula:



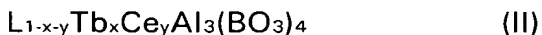
where L denotes at least one element selected from Y and Gd, and x and y are numbers satisfying $0.1 < x \leq 0.7$ and $0.00001 \leq y \leq 0.01$.

Please add the following new claims:

15. A phosphor having a crystal structure and consisting essentially of a composition expressed either by general formula I:



or by general formula II:



where L denotes at least one element selected from Y and Gd, and x and y are numbers satisfying $0.1 < x \leq 0.7$ and $0.00001 \leq y \leq 0.01$.

17.
16. The phosphor according to claim 15, wherein the phosphor consists essentially of a composition expressed by the general formula I.

¹⁸⁻
17. The phosphor according to claim ¹⁷~~16~~, wherein:
the crystal structure comprises a rhombohedral crystal structure;

A3
and
and

50 atomic percent or more of the L element is Gd.

¹⁹⁻
18. The phosphor according to claim 15, wherein the phosphor consists essentially of a composition expressed by the general formula II.

²⁰⁻
¹⁹
19. The phosphor according to claim ~~18~~, wherein:
the crystal structure comprises a rhombohedral crystal structure;

and

50 atomic percent or more of the L element is Gd.

¹⁶⁻
20. The phosphor according to claim 15, wherein the phosphor is located in a device containing a vacuum ultraviolet ray emitting source.
